Journal of Non-Crystalline Solids 69 (1984/85) 433-436
North-Holland, Amsterdam

AUTHOR INDEX

Agarwal, S.C., see Mehra 261
Al-Ani, S.K.J. and C.A. Hogarth, Comment on "Optical energy gap of thick amorphous selenium film" (*Letter to the Editor*) 167
Almeida, R.M., see Etherington 69
Almeida, R.M., J. Lau and J.D. Mackenzie, X-ray photoemission study of fluorozirconate glass and related crystals (*Letter to the Editor*) 161
Anderson, A.C., see Dobbs 429
Ariyoshi, K., see Takahashi 135

Bansal, T.K., see Kishore 213
Baró, M.D., S. Suriñach, M.T. Clavaguera-Mora and N. Clavaguera, Glass-to-crystalline transformation in rapidly quenched $Fe_{78}B_9Si_{13}$ ferromagnetic alloy 105
Bhatia, K.L., G. Parthasarathy and E.S.R. Gopal, Pressure induced effects in bulk amorphous n-type semiconductors $(GeSe_{3.5})_{100-x}Bi_x$ 189
Biswas, S.K., see Chaudhuri 169
Bogomolova, L.D., E.G. Grechko, N.A. Krasil'nikova and V.V. Sakharov, EPR of Mn^{2+} ions in heavy metal fluoride glasses 299
Bogomolova, L.D., A.G. Fedorov, M.E. Kubrinskaya and P.V. Serpov, The effect of Na–K ion exchange on copper states in sodium–silicate glasses containing CuO 387
Bray, P.J., see Hintenlang 243
Bridge, B., see Lambson 117
Burrus, C.A., see Stone 145
Busbey, R.F., see Varshneya 381

Card, H.C., see Herak 39
Carpenter, J.M., see Mildner 27
Chaudhuri, S., S.K. Biswas and A. Choudhury, On "The optical energy gap of thick amorphous selenium film" (*Letter to the Editor*) 169
Choudhury, A., see Chaudhuri 169
Chraplyvy, A.R., see Stone 145
Clavaguera, N., see Baró 105
Clavaguera-Mora, M.T., see Baró 105
Cocco, G., G. Licheri, G. Pachina, G. Piccaluga, G. Pinna and M. Magini, On the structure of iron sodium borosilicate glasses. II. Pre-precipitation and nucleation phenomena by small angle X-ray scattering 393
Couzi, M., see Lorösch 1

Dijkstra, J. and W. Geertsma, Tight-binding approach to the electronic properties of ionic and covalent liquids 317
Dobbs, J.N. and A.C. Anderson, The thermal expansion of teflon at temperatures below 3 K (*Letter to the Editor*) 429
Doremus, R.H., see Komatsu 309
Doweidar, H. and I.A. Gohar, Influence of aluminium oxide on the phase separation and electrical conduction in photochromic glasses 405
Dunstan, D.J., see Irsigler 207
Dussel, H., see Esquinazi 171

0022-3093/85/$03.30 © Elsevier Science Publishers B.V.
(North-Holland Physics Publishing Division)

El-Mallawany, R.A., see Lambson 117
Esquinazi, P., B. Guillet, R. Steinmann and H. Dussel, Flux pinning in a $La_{70}Cu_{30}$ disordered system 171
Etherington, G., L. Keller, A. Lee, C.N.J. Wagner and R.M. Almeida, An X-ray diffraction study of the structure of barium fluorozirconate and fluorohafnate glasses 69

Fedorov, A.G., see Bogomolova 387
Feltz, A., M. Pohle, H. Steil and G. Herms, Glass formation and properties of chalcogenide systems. XXXI. RDF studies on the structure of vitreous GeS_2 and $GeSe_2$ 271
Feltz, A., see Pohle 283
Feltz, A. and G. Pfaff, Glass formation and properties of chalcogenide systems. XXXIV. $Na_4Ge(Se_2)_4$ as a model compound for the short range order of vitreous $GeSe_4$ (*Letter to the Editor*) 425
Fujinami, M. and Y. Ujihira, Transmission and conversion electron Mössbauer studies of the crystallization transformation in the quaternary amorphous $Fe_{80.5}B_{12}Si_{4.5+x}C_{3-x}$ ($x = 0, 2$) ribbons 361
Furukawa, S. and N. Matsumoto, Glow discharge-produced binary Si:H alloy containing polysilane 203

Geertsma, W., see Dijkstra 317
Gohar, I.A., see Doweidar 405
Gopal, E.S.R., see Bhatia 189
Götz, J., see Hoebbel 149
Grasselli, R.K., see Tenhover 249
Grechko, E.G., see Bogomolova 299
Guillet, B., see Esquinazi 171

Hafner, J., Resistivity of liquid, supercooled liquid and amorphous alloys under elevated pressure 325
Hagenmuller, P., see Zahir 221
Harris, J.H., see Tenhover 249
Hasegawa, H., M. Takaishi, I. Yasui and M. Imaoka, Tensile strength of boric oxide glass in vacuum and at very low humidities 49
Hazle, M.A., see Tenhover 249
Herak, T.V., R.D. McLeod, K.C. Kao, H.C. Card, H. Watanabe, K. Katoh, M. Yasui and Y. Shibata, Undoped amorphous SiN_x:H alloy semiconductors: dependence of electronic properties on composition 39
Herms, G., see Feltz 271
Herms, G., see Pohle 283
Hintenlang, D.E. and P.J. Bray, NMR studies of B_2S_3-based glasses 243
Hoebbel, D., J. Götz, A. Vargha and W. Wieker, Determination of silicate anion constitution in glassy and crystalline lead silicates using an improved TMS technique 149
Hogarth, C.A., see Al-Ani 167

Imaoka, M., see Hasegawa 49
Irsigler, P., D. Wagner and D.J. Dunstan, On the preparation dependence of the Staebler–Wronski effect in a-Si:H 207

Kamal, R., see Kishore 213
Kanamori, T., Y. Terunuma, S. Takahashi and T. Miyashita, Transmission loss characteristics of $As_{40}S_{60}$ and $As_{38}Ge_5Se_{57}$ glass unclad fibers 231
Kao, K.C., see Herak 39
Katoh, K., see Herak 39
Keller, L., see Etherington 69

Kinser, D.L., see Kordas 293
Kishore, N., T.K. Bansal, R. Kamal and R.G. Mendiratta, Mössbauer spectroscopic studies in $BaO-B_2O_3-Fe_2O_3$ glass systems 213
Komatsu, T., H. Ur and R.H. Doremus, Infrared transmission and glass formation in $AgI-AgF-AlF_3$ 309
Komatsu, T., K. Matusita and R. Yokota, Volume changes during the structural relaxation and crystallization in Fe–Ni based metallic glasses 347
Kordas, G., R.A. Weeks and D.L. Kinser, Effects of densification conditions on the defect center concentration in germanium-doped silica optical fiber preforms 293
Krasil'nikova, N.A., see Bogomolova 299
Kubrinskaya, M.E., see Bogomolova 387
Kumar, H., see Mehra 261

Lambson, E.F., G.A. Saunders, B. Bridge and R.A. El-Mallawany, The elastic behaviour of TeO_2 glass under uniaxial and hydrostatic pressure 117
Lau, J., see Almeida 161
Lee, A., see Etherington 69
Le Flem, G., see Zahir 221
Levasseur, A., see Lorösch 1
Licheri, G., see Cocco 393
Lorösch, J., M. Couzi, J. Pelous, R. Vacher and A. Levasseur, Brillouin and Raman scattering study of borate glasses 1

Mackenzie, J.D., see Almeida 161
Magini, M., see Cocco 393
Marumo, F., see Yin 97
Massiot, D., Shape comparison of physical spectra: application to Mössbauer spectra of silicate glasses 371
Mathur, P.C., see Mehra 261
Matson, D.W., see Sharma 81
Matsumoto, N., see Furukawa 203
Matusita, K., see Komatsu 347
McLeod, R.D., see Herak 39
Mehra, R.M., S.C. Agarwal, S. Rani, H. Kumar and P.C. Mathur, Magnetoresistance measurements in amorphous Te_xSe_{1-x} films 261
Mendiratta, R.G., see Kishore 213
Mildner, D.F.R. and J.M. Carpenter, The normalization of diffraction from porous non-crystalline systems 27
Miyashita, T., see Kanamori 231
Morikawa, H., see Yin 97

Nath, P., see Pyare 59
Nogami, M., Glass preparation of the ZrO_2-SiO_2 system by the sol–gel process from metal alkoxides 415

Olazcuaga, R., see Zahir 221
Osaka, A., see Takahashi 135

Parthasarathy, G., see Bhatia 189
Paschina, G., see Cocco 393
Pelous, J., see Lorösch 1
Pfaff, G., see Feltz 425
Piccaluga, G., see Cocco 393
Pinna, G., see Cocco 393

Pohle, M., A. Feltz, H. Steil and G. Herms, Glass formation and properties of chalcogenide systems. XXXII. RDF studies on the structure of vitreous Ge_2S_3 and Ge_2Se_3 283
Pohle, M., see Feltz 271
Pyare, R. and P. Nath, Kinetics and thermodynamics of ferrous–ferric equilibrium in sodium aluminoborate glasses 59

Rani, S., see Mehra 261

Sakharov, V.V., see Bogomolova 299
Saunders, G.A., see Lambson 117
Scher, H., see Tenhover 249
Serpov, P.V., see Bogomolova 387
Sharma, S.K. and D.W. Matson, Raman spectra and structure of sodium aluminogermanate glasses 81
Shibata, Y., see Herak 39
Soules, T.F., see Varshneya 381
Steil, H., see Feltz 271
Steil, H., see Pohle 283
Steinmann, R., see Esquinazi 171
Stone, J., A.R. Chraplyvy and C.A. Burrus, Observation of Raman scattering from N_2 in a silica optical fiber 145
Suriñach, S., see Baró 105

Takahashi, K., A. Osaka and K. Ariyoshi, Sizes of the voids and of the alkali ions in a high-cristobalite type network structure 135
Takahashi, S., see Kanamori 231
Takaishi, M., see Hasegawa 49
Tenhover, M., J.H. Harris, M.A. Hazle, H. Scher and R.K. Grasselli, Isoelectronic substitution in $Si(S_xSe_{1-x})_2$ glasses 249
Terunuma, Y., see Kanamori 231

Ujihira, Y., see Fujinami 361
Ur, H., see Komatsu 309

Vacher, R., see Lorösch 1
Vargha, A., see Hoebbel 149
Varshneya, A.K., R.F. Busbey and T.F. Soules, Comparison of $AlPO_4$ and SiO_2 glass structures using molecular dynamics 381

Wagner, C.N.J., see Etherington 69
Wagner, D., see Irsigler 207
Watanabe, H., see Herak 39
Weeks, R.A., see Kordas 293
Wieker, W., see Hoebbel 149

Yasui, I., see Hasegawa 49
Yasui, M., see Herak 39
Yin, C.D., H. Morikawa and F. Marumo, Coordination number of Ge atoms in Na_2O–GeO_2 glasses studied by chemical shift measurements 97
Yokota, R., see Komatsu 347

Zahir, M., R. Olazcuaga, C. Parent, G. Le Flem and P. Hagenmuller, A structural interpretation of the Pb^{2+}, Eu^{3+} and Nd^{3+} optical spectra in doped sodium borate glasses 221

Journal of Non-Crystalline Solids 69 (1984/85) 437-439
North-Holland, Amsterdam

SUBJECT INDEX

Amorphous Solids
Metallic Glasses, Electronic Conductivity 171
Neutron Diffraction 27
Semiconductors, Pressure Effects 189
Thin Films, Electronic Conductivity 39
Thin Films, Optical Properties 203
Thin Films, Photoconductivity 207

Borates
Mössbauer Effect, Magnetic Properties 213
Optical Properties, Strength 221
Raman Spectra, Structure 1
Strength, Glass Fibers 49
Thermodynamics, Kinetics 59

Chalcogenides
Glass Fibers, Optical Properties 231
Glass Formation, Structure 425
Nuclear Magnetic Resonance, Structure 243
Optical Properties, Thin Films 167, 169
Raman Spectra, Structure 249
Thin Films, Magnetic Properties 261
X-ray Diffraction, Structure 271, 283

Crystallization
Metallic Glasses, Magnetic Properties 105
Metallic Glasses, Mössbauer Effect 361
Metallic Glasses, Relaxation 347

Elastic Properties
Oxides, Pressure Effects 117

Electron Spin Resonance
Fluorides, Structure 299
Silica, Radiation Effects 293
Silicates, Ion Exchange 387

Electronic Conductivity
Amorphous Solids, Metallic Glasses 171
Amorphous Solids, Thin Films 39
Liquid Metals, Metallic Glasses 325

Expansion
Non-oxide Glasses, Polymers 429

Fluorides
Electron Spin Resonance, Structure 299
Glass Formation, Infra-red Absorption 309
Structure, X-ray Emission 161
X-ray Diffraction, Structure 69

Germanates
Raman Spectra, Structure 81
Structure 97

Glass Fibers
Borates, Strength 49
Chalcogenides, Optical Properties 231
Silica, Raman Spectra 145

Glass Formation
Chalcogenides, Structure 425
Fluorides, Infra-red Absorption 309

Infra-red Absorption
Fluorides, Glass Formation 309
Sol–gel Method, Silicates 415

Ion Exchange
Silicates, Electron Spin Resonance 387

Ionic Conductivity
Silicates, Phase Separation 405

Kinetics
Borates, Thermodynamics 59

Liquids
Structure, Liquid Metals 317

Liquid Metals
Liquids, Structure 317
Metallic Glasses, Electronic Conductivity 325

Magnetic Properties
Borates, Mössbauer Effect 213

0022-3093/85/$03.30 © Elsevier Science Publishers B.V.
(North-Holland Physics Publishing Division)

Chalcogenides, Thin Films 261
Metallic Glasses, Crystallization 105

Metallic Glasses
Amorphous Solids, Electronic Conductivity 171
Crystallization, Magnetic Properties 105
Crystallization, Relaxation 347
Liquid Metals, Electronic Conductivity 325
Mössbauer Effect, Crystallization 361

Mössbauer Effect
Borates, Magnetic Properties 213
Metallic Glasses, Crystallization 361
Silicates, Optical Properties 371

Neutron Diffraction
Amorphous Solids 27

Non-oxide Glasses
Polymers, Expansion 429

Nuclear Magnetic Resonance
Chalcogenides, Structure 243

Nucleation
Silicates, X-ray Diffraction 393

Optical Properties
Amorphous Solids, Thin Films 203
Borates, Strength 221
Chalcogenides, Glass Fibers 231
Chalcogenides, Thin Films 167, 169
Mössbauer Effect, Silicates 371

Oxides
Elastic Properties, Pressure Effects 117
Structure, Silica 135

Phase Separation
Silicates, Ionic Conductivity 405

Phosphates
Silicates, Structure 381

Photoconductivity
Amorphous Solids, Thin Films 207

Polymers
Non-oxide Glasses, Expansion 429

Pressure Effects
Amorphous Solids, Semiconductors 189
Oxides, Elastic Properties 117

Radiation Effects
Silica, Electron Spin Resonance 293

Raman Spectra
Borates, Structure 1
Chalcogenides, Structure 249
Germanates, Structure 81
Silica, Glass Fibers 145

Relaxation
Metallic Glasses, Crystallization 347

Semiconductors
Amorphous Solids, Pressure Effects 189

Silica
Electron Spin Resonance, Radiation Effects 293
Glass Fibers, Raman Spectra 145
Oxides, Structure 135

Silicates
Ion Exchange, Electron Spin Resonance 387
Mössbauer Effect, Optical Properties 371
Nucleation, X-ray Diffraction 393
Phase Separation, Ionic Conductivity 405
Phosphates, Structure 381
Sol–gel Method, Infra-red Absorption 415
Structure 149

Sol–gel Method
Silicates, Infra-red Absorption 415

Strength
Borates, Glass Fibers 49
Borates, Optical Properties 221

Structure
Borates, Raman Spectra 1
Chalcogenides, Glass Formation 425
Chalcogenides, Nuclear Magnetic Resonance 243
Chalcogenides, Raman Spectra 249
Chalcogenides, X-ray Diffraction 271, 283
Fluorides, Electron Spin Resonance 299
Fluorides, X-ray Diffraction 69
Fluorides, X-ray Emission 161
Germanates 97
Germanates, Raman Spectra 81
Liquids, Liquid Metals 317
Oxides, Silica 135

Phosphates, Silicates 381
Silicates 149

Thermodynamics
Borates, Kinetics 59

Thin Films
Amorphous Solids, Electronic Conductivity 39
Amorphous Solids, Optical Properties 203
Amorphous Solids, Photoconductivity 207
Chalcogenides, Magnetic Properties 261
Chalcogenides, Optical Properties 167, 169

X-ray Diffraction
Chalcogenides, Structure 271, 283
Fluorides, Structure 69
Silicates, Nucleation 393

X-ray Emission
Fluorides, Structure 161